

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
28 October 2004 (28.10.2004)

PCT

(10) International Publication Number
WO 2004/092339 A2

- (51) International Patent Classification⁷: C12N
- (21) International Application Number:
PCT/US2004/011195
- (22) International Filing Date: 12 April 2004 (12.04.2004)
- (25) Filing Language: English
- (26) Publication Language: English

- (30) Priority Data:
- | | | |
|------------|--------------------------------|----|
| 60/462.111 | 11 April 2003 (11.04.2003) | US |
| 60/467.728 | 2 May 2003 (02.05.2003) | US |
| 60/475.595 | 4 June 2003 (04.06.2003) | US |
| 60/502.111 | 11 September 2003 (11.09.2003) | US |
| 60/524.188 | 21 November 2003 (21.11.2003) | US |

- (63) Related by continuation (CON) or continuation-in-part (CIP) to earlier applications:
- | | |
|----------|--------------------------------|
| US | 60/462,111 (CON) |
| Filed on | 11 April 2003 (11.04.2003) |
| US | 60/467,728 (CON) |
| Filed on | 2 May 2003 (02.05.2003) |
| US | 60/475,595 (CON) |
| Filed on | 4 June 2003 (04.06.2003) |
| US | 60/502,111 (CON) |
| Filed on | 11 September 2003 (11.09.2003) |
| US | 60/524,188 (CON) |
| Filed on | 21 November 2003 (21.11.2003) |

- (71) Applicants (for all designated States except US): **ILEX PRODUCTS, INC.** [US/US]; 4545 Horizon Hill Blvd., San Antonio, TX 78229-2263 (US). **ARBOR VITA CORPORATION** [US/US]; 772 Lucerne Drive, Sunnyvale, CA 94806 (US). **DANA-FARBER CANCER INSTITUTE** [US/US]; 44 Binney Street, Boston, MA 02115 (US).

- (72) Inventors; and

- (75) Inventors/Applicants (for US only): **BELMARES, Michael, P.** [US/US]; 4628 Thimbleberry Lane, San Jose,

CA 95129 (US). **LU, Peter, S.** [US/US]; 99 East Middlefield Road, No. 29, Mountain View, CA 94043 (US). **GARMAN, Jonathan, David** [US/US]; 5084 McCoy Avenue, San Jose, CA 95130 (US). **JECMINEK, Albert, A.** [US/US]; 105 Ponca Bend, San Antonio, TX 78231 (US). **KHARBANDA, Surrender** [US/US]; 8 Jacqueline Circle, Natick, MA 01760 (US). **AGATA, Naoki** [JP/US]; 23 Heath Street, #1, Brookline, MA 02445 (US). **KUFE, Donald, W.** [US/US]; 170 Grove Street, Wellesley, MA 02 (US).

- (74) Agent: **HIGHLANDER, Steven, L.**; Fulbright & Jaworski LLP, 600 Congress Avenue, Suite 2400, Austin, TX 78701 (US).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW.

- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

- (54) Title: MODULATION OF MUC1 MEDIATED SIGNAL TRANSDUCTION

- (57) Abstract: The present invention provides compositions and methods for inhibiting the binding of the carboxy-terminus of MUC1 to PDZ domain(s) and to enhance the sensitivity of MUC1 expressing cancer cells to chemotherapeutic agents.



WO 2004/092339 A2